

4 August 2009

RFC 81

Re: Georgetown Neighborhood Library
Renovation, Expansion, and Restoration
Washington, D.C.
Contract: DCCE-2007-C-0099
MJ | A Project No.: 7590

FLOOR ASSEMBLIES/FIRE RATINGS:

Lower Level **Concrete Floor Slab (new)**

First Level **Concrete Floor Assembly (existing)**

Two-Course Concrete Floor: Varies 4" -5 ½" concrete slab with 4" topping slab constructed in 1935. Have assumed a siliceous concrete base with a siliceous overlay of concrete. Calculated per IBC 2006 Building Code 721.2.2.2 Multicourse floors tables. The fire-resistance rating is the 4 " minimum base slab (1.5 Hours) plus 4" overlay (2 Hours) for a total of 3.5 Hour Rating. See Structural Fire Resistance Requirements on AE-0.00.

Concrete Floor Assembly (new)

New concrete floor is designed as UL D907. See Structural Fire Resistance Requirements on AE-0.00.

Second Level **Concrete Floor Assembly (existing)**

Two-Course Concrete Floor: Varies 4" -5 ½" concrete slab with 4" topping slab constructed in 1935. Have assumed a siliceous concrete base with a siliceous overlay of concrete. Calculated per IBC 2006 Building Code 721.2.2.2 Multicourse floors tables. The fire-resistance rating is the 4 " minimum base slab (1.5 Hours) plus 4" overlay (2 Hours) for a total of 3.5 Hour Rating. See Structural Fire Resistance Requirements on AE-0.00.

Concrete Floor Assembly (new)

New concrete floor is designed as UL D907. See Structural Fire Resistance Requirements on AE-0.00.

Third Level

Concrete Floor Assembly (new)

UL Design No. D907 Flooring System: See Structural Fire Resistance Requirements on AE-0.00.

Floor Assembly (new)

UL Design No. L524 Flooring System No. 9 with 1/8" mortar skim coat topping and Hydro Ban waterproofing. See Structural Fire Resistance Requirements on AE-0.00.